

PERFORMANCE

Processor

Processor Family

7th Generation Intel® Core™ i3 / i5 Processor, 8th Generation Intel Core i3 / i5 / i7 Processor

Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Core i3-7020U	2	4	2.3GHz	-	3MB	DDR4-2133	Intel HD Graphics 620
Core i3-7130U	2	4	2.7GHz	-	3MB	DDR4-2133	Intel HD Graphics 620
Core i3-8130U	2	4	2.2GHz	3.4GHz	4MB	DDR4-2400	Intel UHD Graphics 620
Core i5-7200U	2	4	2.5GHz	3.1GHz	3MB	DDR4-2133	Intel HD Graphics 620
Core i5-8250U	4	8	1.6GHz	3.4GHz	6MB	DDR4-2400	Intel UHD Graphics 620
Core i7-8550U	4	8	1.8GHz	4.0GHz	8MB	DDR4-2400	Intel UHD Graphics 620

Notes:

- i3-7130U is NOT available in US and EMEA

Operating System

- Windows® 10 Home 64
- Windows 10 Pro 64
- No operating system

Graphics

Graphics	Type	Memory	Key Features
Intel HD Graphics 620	Integrated	Shared	DirectX® 12
Intel UHD Graphics 620	Integrated	Shared	DirectX 12
AMD Radeon™ RX 550	Discrete	2GB GDDR5	DirectX 12

Monitor Support

Supports up to 2 independent displays via native display and 1 external monitor; supports external monitor via HDMI® (up to 1920x1080@60Hz)

Chipset

Intel SoC (System on Chip) platform

Memory

Memory Type

- DDR4-2133
- DDR4-2400

Notes:

- Installed memory is actually 2400MHz but may run at 2133MHz due to processor limitation

Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

Max Memory

- Up to 32GB DDR4-2133
- Up to 32GB DDR4-2400

Notes:

- The max memory is based on the test results with current Lenovo® memory offerings. The system may support more memory as the technology develops.

Storage

Storage Support

Up to two drives, 1x 2.5" HDD + 1x M.2 2280 SSD, 1x 2.5" HDD + 1x M.2 2242 SSD, 1x 2.5" SSD + 1x M.2 2280 SSD or 1x 2.5" SSD + 1x M.2 2242 SSD

- 2.5" HDD up to 2TB
- 2.5" SSD up to 256GB
- M.2 2280 SSD up to 512GB
- M.2 2242 SSD up to 128GB
- Optional Intel Optane™ Memory

Storage Type

Disk Type	Interface	RPM	Security
2.5" SATA HDD	SATA 6Gb/s	5.4K	APS (Active Protection System™)
2.5" SATA HDD	SATA 6Gb/s	7.2K	APS (Active Protection System)
2.5" SATA SSD	SATA 6Gb/s	-	Opal2
M.2 2242 SSD	PCIe NVMe, PCIe 3.0 x2	-	Opal2
M.2 2280 SSD	PCIe NVMe, PCIe 3.0 x4	-	Opal2

Removable Storage**Optical**

None

Card Reader

MicroSD card reader

Multi-Media**Audio Chip**

High Definition (HD) Audio, Synaptic® CX11852 codec

Speakers

Stereo speakers, 1.5W x2, Dolby® Advanced Audio

Microphone

Dual array microphone

Camera

720p, fixed focus

Battery**Battery**

Integrated Li-Polymer 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

Max Battery Life

MobileMark® 2014: 13.51 hr

Notes:

- All battery life claims are approximate maximum and based on results using the MobileMark 2014 and/or MobileMark 2018 battery-life benchmark tests. Actual battery life will vary and depends on many factors such as product configuration and usage, software use, wireless functionality, power management settings, and screen brightness. The maximum capacity of the battery will decrease with time and use.

Power Adapter

- 45W USB-C AC adapter
- 65W USB-C AC adapter

DESIGN**Display****Display**

Size	Resolution	Touch	Type	Brightness	Surface	Aspect	Contrast	Color	Viewing	Key
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						Ratio	Ratio	Gamut	Angle	Features
14.0"	HD (1366x768)	None	TN	220 nits	Anti-glare	16:9	400:1	-	-	-
14.0"	FHD (1920x1080)	None	IPS	250 nits	Anti-glare	16:9	400:1	-	-	-

Notes:

- California Electronic Waste Recycling Fee
In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, go to <https://www.calrecycle.ca.gov/Electronics/Consumer>

Touchscreen

Non-touch

Input Device**Keyboard**

6-row, spill-resistant, multimedia Fn keys

Keyboard Backlight

- LED backlight
- Not support

UltraNav™

TrackPoint® pointing device and Mylar® surface multi-touch touchpad

Mechanical**Dimensions (WxDxH)**

Models	Dimensions
Aluminium (Top), PC + ABS (Bottom) models	329 x 242 x 19.9 mm (12.96 x 9.53 x 0.78 inches)
PC + ABS (Top), PC + ABS (Bottom) models	329 x 242 x 21.9 mm (12.96 x 9.53 x 0.83 inches)

Weight

1.75 kg (3.87 lbs)

Case Color

- Black
- Silver

Case Material

- Aluminium (top), PC + ABS (bottom)
- PC + ABS (top), PC + ABS (bottom)

CONNECTIVITY**Network****Onboard Ethernet**

Gigabit Ethernet, Realtek® RTL8111GUS

WLAN + Bluetooth™

- Realtek RTL8821CE, 802.11ac 1x1 Wi-Fi + Bluetooth 4.1, M.2 card
- Realtek RTL8822BE, 802.11ac 2x2 Wi-Fi + Bluetooth 4.1, M.2 card
- Intel Dual Band Wireless-AC 3165, 802.11ac Dual Band 1x1 Wi-Fi + Bluetooth 4.1, M.2 Card

WWAN

Not Support

SIM Card

No SIM card

NFC

Not support

Ports

Standard Ports

- 1x USB 2.0
- 1x USB 3.1 Gen 1
- 1x USB 3.1 Gen 1 (Always On)
- 1x USB-C 3.1 Gen 2 (support data transfer, Power Delivery and DisplayPort™)
- 1x HDMI 1.4b
- 1x microSD card reader
- 1x Ethernet (RJ-45)
- 1x headphone / microphone combo jack (3.5mm)

Notes:

- Depending on many factors, actual data transfer speed may be lower than theoretical speed

SECURITY & PRIVACY

Security

Security Chip

- Discrete TPM 2.0, TCG certified
- Firmware TPM 2.0 integrated in chipset
- Disabled (in some regions)

Physical Locks

Kensington® Security Slot

Smart Card Reader

No smart card reader

Fingerprint Reader

- Touch style fingerprint reader on palm rest
- No fingerprint reader

BIOS Security

- Power-on password
- Supervisor password
- Hard disk password

SERVICE

Warranty

Base Warranty

- 1-year mail-in service
- 1-year depot service

CERTIFICATIONS

Green Certifications

- ENERGY STAR® 8.0
- TCO
- RoHS compliant

Other Certifications

Mil-Spec Test

MIL-STD-810G military test passed

